16:23

APPLICATION NO.

HEWLETT PACKARD LGL FCOLL

ete and send this form, together with applicable fee(s), to: Mail

970 898 7247

P.01

PART B - FEE(S) TRANSMITTAL

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (703) 746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEB and PUDILICATION FEE (if required). Blocks I through 4 should be completed where appropriate. All further correspondence including the Patent, idvance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (d) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Mose: Legibly mark-up with any currentons = use Block 1) Note: A certificate of mailing can only be used for domestic mailings of the fee(s) Transmired, This certificate cannot be used for any other accompanying papers. Each additional paper, such as an essignment or formul drawing, must have its own certificate of mailing or transmission. 7590 06/30/2004 HEWLETT-PACKARD COMPANY Certificate of Mailing or Transmission

I hereby certify that this Pee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop 185UE FEE address above, or being taxsmile transmitted to the USPTO, on the date indicated below. Intellectual Property Administration P.O.Box 272400 Fort Collins, CO 80527-2400

		Oathi Christin	(Signature) (Date)
iling date	First named inventor	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/16/2001	Jeffrey L. Deeney	10015589-1	5995

Cathi Christensen

TITLE OF INVENTION: METHOD AND APPARATUS FOR SUPPORTING CIRCUIT COMPONENT HAVING SOLDER COLUMN ARRAY INTERCONNECTS USING INTERPOSED SUPPORT SHIMS

AI-PLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEB(S) DUE	DATE DUE
(nanisivo)qua	NO	\$1330	\$300	\$1630	04/30/2004
EXAMINER		ART UNIT	CLASS-SUBCLASS	ן	
BUI, HUNG \$		2841	361-762000	•	
(1303). Changs of correspond idreas form PTO/SB/1 "Pec Address" indicate	ce Address or indication of "Pe ence address (or Change of C 22) attached. ion (or "Fee Address" lodicati or more recent) attached. Use	nurespondence age firm age after Court age atte	for printing on the patent front page, act of up to 3 registered paten; the OR, alternatively, (2) the name a (having as a member a registered nt) and the names of up to 2 registered meys or agents. If no name is listo the printed.	of a single attorney or 2	

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (prim or type)

Please check the unpropriate assignee category or categories (will not be printed on the patent);

FILING DAT

PLEASE NOTE: Unless no assignce is identified below, no assignce data will appear on the patent. Inclusion of assignce data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment. (A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Hewlett-Packard Development Company, L.P.

Houston, Texas

Lieuze cuera une mibiolizare availares cutoflorà ot cui	egories (will not be printed an the patent):	☐ individual	Alecorporation or other private group			
4a. The following fce(s) are enclosed:	4h, Payment of Fee(s):		The section and the section of the s	entity D government		
PAssue Fee Q A check in the amount of the fee(s) is enclosed. Q Publication Fee Q A check in the amount of the fee(s) is enclosed. Q Payment by credit card. Form PTO-2038 is attached. Q Advance Order - # of Copies Q Advance Order - # of Copies Q A check in the amount of the fee(s) is enclosed. Q A check in the amount of the fee(s) is enclosed. Q A check in the amount of the fee(s) is enclosed. Q A check in the amount of the fee(s) is enclosed. Q A check in the amount of the fee(s) is enclosed.						
Director for Patents is requested to apply the Issue Pe	e and Publication Pee (if any) or to re-apply	any previously p	aid issue foe to the application identific	ed above.		
Authorized Signature) NOTE: The Issue Fee and Publication Fee (if requires than the applicant a registered attentey or attent than the applicant a registered attentey or attent as a shown by the records of the United States. This collection of information is required by 37 Clobtain or retain a heuself by the public which is teapplication. Confidentiality is governed by 35 U.S.C estimated to take 12 minutes to complete, including completed application from the the USPID. Time case. Any comments on the amount of time you suggestious for reducing this barden, should be set Parent and Trademark Office, U.S. Department 22313-1450. DO NOT SEND FEES OR COMPLEXIND TO; Commissioner for Patents, Alexandria, U.der the Paperwork Reduction Act of 1995, of coeffection of information unless it displays a valid O	FRI. 311. The information is required to 1. Fixten and Trudemark Office. FR 1.311. The information is required to 2. Ite (and by the USPTO to process) and 2. Ite (and by the USPTO) to process) and 2. Ite (and by the USPTO) to process, and 2. Ite (and by the USPTO) to process, and 2. Ite (and by the USPTO) to process, and 2. Ite (and by the USPTO) to process, and 2. Ite (and the USPTO) to process, and 2.	09/21/2004 01 FC:1501 02 FC:1504	TBESHAH2 00000009 082023 1330.00 DA 300.00 DA	09992864		
·		_				

TRANSMIT THIS FORM WITH FEE(S)





Hewlett-Packard Company Legal Department 3404 East Harmony Road, MS 79 Fort Collins CO 80528-9599 www.hp.com

FAX Coversheet

Date: 9-3-200420

No. Of Pages __3_ Including Coversheet

TO:

Mail Stop ISSUE FEE

Commissioner For Patents

P O Box 1450

Alexandria VA 22313-1450

FAX No.:

703 746 4000

FROM:

Cathi Christensen

PHONE:

970-898-4403

RE:

PDNO

10015588-1

ATTY S/N AWW 09/992,864

FILING DATE

11/16/2001

INVENTOR

Jeffrey L. Deeney

TITLE

Method And Apparatus For Supporting Circuit Component Having Solder

Column Array Interconnects Using Interposed Support Shims

Please acknowledge receipt of the following documents for the above referenced Patent Application:

Fee(s) Transmittal - In Duplicate